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(71) Applicant (for all designated States except US): **DKI
 PLAST A.S.** [DK/DK]; Erhvervsparken 7, DK-4621
 Gadstrup (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALLAN, Peter,**

Stewart [GB/GB]; Wolfson Centre for Materials Pro-
 cessing, Brunel University, Uxbridge, Middlesex UB8
 3PH (GB). **HOLDEN, Andrew, Mark** [GB/GB]; Pera
 Technology, Pera Innovation Park, Melton Mowbray,
 Leicestershire, LE13 0PB (GB).

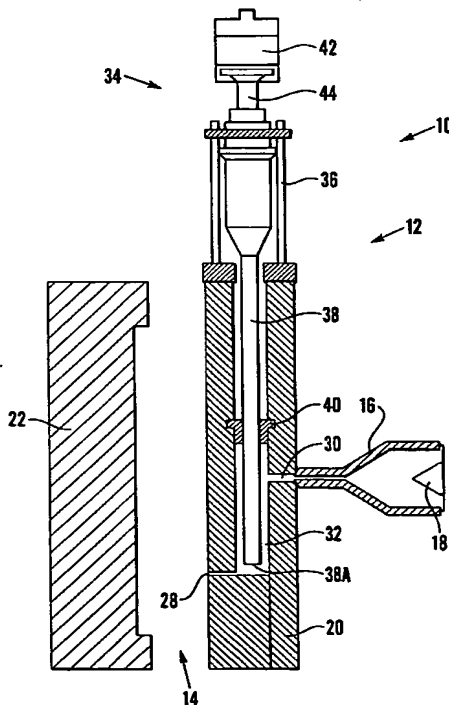
(74) Agents: **CHURCH, Simon, John** et al.; Marks & Clerk,
 144 New Walk, Leicester LE1 7JA (GB).

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(54) Title: APPARATUS AND METHOD FOR IMPROVING THE FLOW CHARACTERISTICS OF INJECTION MOULDING
 OR EXTRUSION MATERIAL USING ULTRASONIC VIBRATION



(57) Abstract: A melt stream flow path is formed in the fixed part (20) of an injection moulding tool (12). A sonotrode (38) is arranged for direct contact with moulding material passing through the flow path in use, for directly vibrating the material and thus improving the melt flow characteristics of the moulding material as material is being injected into the tool (12). The sonotrode 38 extends directly into the flow path, or forms part of the wall of the flow path. An extrusion apparatus (50, 80) is also provided with a sonotrode (38) extending directly into a flow path, or forming part of the wall of a flow path formed in a modified die block.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
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